



## **RE: Shoreline/Dock Permit for The Crossing at Lake Forest**

Below is a narrative outlining the specifics related to the shoreline/dock permit application for the 880 LF of lake frontage at The Crossing at Lake Forest, which is generally located at 3801 Eagle Waters Rd, Eagle River WI 54521. The 880 LF of frontage is connected to what was previously known as The Lake Forest Golf Club. The specific parcel where the frontage occurs will eventually have a restaurant that will service the local and surrounding community. This frontage exists on a waterway that connects Eagle Lake and Voyageur Lake. Our purpose for this application is to: 1) stabilize and improve the existing shoreline and 2) install a dock system that will allow patrons to safely access our restaurant via boat. We went through a pre-application process with DNR to ensure all reasonable alternatives/options were explored and have incorporated all suggestions from that process.

### **Shoreline Improvements:**

Our goal is to stabilize and improve the shoreline in a way that is both responsible and appropriate given the existing conditions of the shoreline.

- **Biologs:** we are proposing to utilize bio logs at a few locations to naturally enhance and stabilize some existing erosion. Approximately 55 LF towards the west end of the shoreline and approximately 120 LF on the east end of the shoreline.
- **Riprap area:** there is an area with significant slope where we are proposing to utilize riprap to stabilize the shoreline. We are requesting the ability to install an additional 30 LF over the allowed 200 LF. We will lay geotextile fabric down first, create a notch at the lakebed, then install a variation of size of riprap from 4"-18". It is important to have a good mix of size in order for the riprap to lock in place and better hold together.
- **Natural enhanced area:** There are currently some down trees along the shoreline, which is great for the habitat, but is currently creating an obstruction within the waterway. We are proposing to relocate a few of the trees and create 58 LF of naturally enhanced shoreline. We will bring one tree over and anchor it parallel the shoreline, then cut two other trees approximately 5' out from the base and anchor those at an approximately 45-degree angle to the shoreline in a crisscross pattern. This will remove the obstruction from the waterway, create an enhanced habitat area for fish and other wildlife, and create a wave break to protect the shoreline.

### **Dock area:**

Due to the commercial use of this parcel, we are requesting permission to double the amount of piers along our shoreline. We have located the piers in an area



that we feel minimizes impact on the waterway. We have done our best to avoid the critical “choke point”. We are proposing 18 total piers with 34 boat slips. Our piers will be divided into two different areas. Area 1 will consist of 12 piers or 23 boat slips. This area will be open to restaurant patrons. As you will see on the drawing, we have divided this area in the middle to not create an obstruction for animals moving from land to water. One area will access land via a stair and one area will access land via a ramp. It is important to us to have an accessible area where patrons can get from their boat to our restaurant via an accessible route. Area 2 will consist of 6 piers or 11 boat slips. This area will be restricted for “commercial use only” and will not be accessible to the public. This area will be used for boat rentals that will be operated by us. You will note from the drawing that we will have 2 spaces that will not be accessible due to the naturally enhanced area that we are providing.

- **Dock Boardwalk:** At Area 1, we are proposing to do a 6’ wide boardwalk. This will allow adequate space for people to safely move from their boat to the shoreline. At Area 2, we are proposing to do a 4’ wide boardwalk. Since this will have restricted use, we are reducing the size of the boardwalk to minimize our impact and reduced the square footage by 265 SF.
- **Dock Piers:** We are proposing to do 3’ wide piers, which is the minimum width to provide safe egress to and from the boats. The length of the piers will be 18’ and the width between piers will be 22’. We are anticipating a large number of pontoons to utilize this area and 22’ allows these types of boats to safely come and go from this area.
- **Aerator:** We will not be utilizing any aerators in this area as we are not concerned with ice damage.
- **Fueling Station:** We will not have a fueling station on site.

We hope that we have provided adequate detail and descriptions of this work, and that you agree that we are doing our diligence to responsibly improve this area.